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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/606,023	06/24/2003	Chien-Hua Chen	100202062-1	3970
22879	7590 10/04/2006		EXAMINER	
HEWLETT PACKARD COMPANY P O BOX 272400, 3404 E. HARMONY ROAD INTELLECTUAL PROPERTY ADMINISTRATION			SINES, BRIAN J	
			ART UNIT	PAPER NUMBER
FORT COL	FORT COLLINS, CO 80527-2400		1743	
		•	DATE MAILED: 10/04/2006	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/606,023	CHEN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Brian J. Sines	1743				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with	h the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period for Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNIC 36(a). In no event, however, may a rep will apply and will expire SIX (6) MONT e, cause the application to become ABA	ATION. bly be timely filed HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
	action is non-final.					
· <u>-</u>	-					
• •	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-70</u> is/are pending in the application	· <u> </u>					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
i) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.	_					
8) Claim(s) 1-70 are subject to restriction and/or	∑ Claim(s) <u>1-70</u> are subject to restriction and/or election requirement.					
Application Papers	·					
9) The specification is objected to by the Examine	er.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. §	119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority document	s have been received.					
2. Certified copies of the priority document	s have been received in Ap	plication No				
3. Copies of the certified copies of the prio	rity documents have been r	eceived in this National Stage				
application from the International Burea	u (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	/Mail Date ormal Patent Application (PTO-152) -					

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DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1 13, drawn to an apparatus comprising a fluidic
 microelectromechanical system, classified in class 422, subclass 100.
- 2. Claims 14 25, drawn to a method of making a fluidic microelectromechanical system, classified in class 264, subclass 34.
- 3. Claims 26 31, drawn to a method of making a pump, classified in class 264, subclass 34.
- 4. Claim 32, drawn to a pump apparatus, classified in class 417, subclass 199.1.
- 5. Claims 33 37, drawn to an integrated total chemical analysis system, classified in class 422, subclass 50.
- Claims 38 43, drawn to a method of fabricating a fluidic
 microelectromechanical system, classified in class 264, subclass 405.
- 7. Claims 44 47, drawn to a method of making a reactor apparatus, classified in class 264, subclass 34.
- 8. Claim 48, drawn to a reactor apparatus, classified in class 422, subclass 129.
- 9. Claims 49 52, drawn to a method of making a separator apparatus, classified in class 264, subclass 34.
- 10. Claim 53, drawn to a separator apparatus, classified in class 422, subclass 101.
- 11. Claims 54 57, drawn to a method of making a filter, classified in class 264, subclass 34.

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12. Claim 58, drawn to a filter apparatus, classified in class 422, subclass 101.

- 13. Claims 59 62, drawn to a method of making an optical waveguide, classified in class 264, subclass 34.
- 14. Claim 63, drawn to a waveguide apparatus, classified in class 422, subclass 82.11.
- 15. Claim 64, drawn to a method of making a fluidic microelectromechanical system using lamination, classified in class 156, subclass 220.
- 16. Claim 65, drawn to a method of making a fluidic microelectromechanical system, classified in class 264, subclass 34.
- 17. Claims 66 70, drawn to an anchor apparatus, classified in class 422, subclass103.

The inventions are distinct, each from the other because of the following reasons:

The instant application, as listed above, comprises various inventions related as processes of making and products made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make another and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, the devices as claimed can be made by another and materially different process. For example, the devices could be possibly made by another process comprising different steps or a different sequence of steps. Furthermore, the processes as claimed can be used to make another and materially different products. For example, the instant application comprises inventions directed to methods of making different devices, such as a pump apparatus and an optical waveguide apparatus, which incorporate different process steps.

The instant application, as listed above, comprises various inventions that are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different designs, modes of operation, and effects (MPEP § 802.01 and § 806.06). In the instant case, the different inventions have different designs and modes of operation. For example, the instant application comprises various inventions directed to different devices, such as a fluidic microelectromechanical system, reactor apparatus, a pump apparatus, a filter apparatus, and a waveguide apparatus, which incorporate different structural features required for operation.

Because these inventions are independent or distinct for the reasons given above and the inventions require a different field of search (see MPEP § 808.02), restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In

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either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian J. Sines, whose telephone number is (571) 272-1263. The examiner can normally be reached on Monday - Friday (11 AM - 8 PM EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill A. Warden can be reached on (571) 272-1267. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Bian Sui